



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

113

7590

11/19/2003

GRIFFIN BUTLER WHISENHUNT & SZIPL LLP SUITE PH-1 2300 NINTH STREET SOUTH ARLINGTON, VA 222042396 EXAMINER
HESS, BRUCE H

ART UNIT

PAPER NUMBER

1774

DATE MAILED: 11/19/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/434,498	11/05/1999	MUNEHIRO DATE	ASAIN0058	4034

TITLE OF INVENTION: REVERSIBLE HEAT-SENSITIVE PAPER AND METHODS FOR WRITING INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	SO -	\$1330	02/19/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

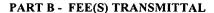
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.







Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 11/19/2003 113 GRIFFIN BUTLER WHISENHUNT & SZIPL LLP Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile SUITE PH-1 2300 NINTH STREET SOUTH transmitted to the USPTO, on the date indicated below. **ARLINGTON, VA 222042396** (Depositor's name) (Signature) (Date) APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO CONFIRMATION NO 11/05/1999 MUNEHIRO DATE 09/434.498 ASAIN0058 4034 TITLE OF INVENTION: REVERSIBLE HEAT-SENSITIVE PAPER AND METHODS FOR WRITING INFORMATION APPLN, TYPE SMALL ENTITY **ISSUE FEE PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE \$1330 02/19/2004 nonprovisional NO \$1330 20 EXAMINER ART UNIT CLASS-SUBCLASS HESS, BRUCE H 1774 503-201000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent "Fee Address" indication (or "Fee Address" Indication form attorneys or agents. If no name is listed, no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. □ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to ☐ Advance Order - # of Copies Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/434,498		11/05/1999	MUNEHIRO DATE	ASAIN0058	4034	
113	7590	11/19/2003		EXAM	INER	
GRIFFIN BUTLER WHISENHUNT & SZIPL LLP				HESS, BRUCE H		
SUITE PH-1 2300 NINTH		OUTH		ART UNIT	PAPER NUMBER	
ARLINGTO	N, VA 2220	42396		1774		
			DATE MAILED: 11/19/2003			

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/434,498	11/05/1999	MUNEHIRO DATE	ASAIN0058	4034
113	7590 11/19/2003		EXAM	INER
01111111	LER WHISENHUNT & S	HESS, BI	HESS, BRUCE H	
SUITE PH-1 2300 NINTH STI	REET SOUTH		ART UNIT	PAPER NUMBER
ARLINGTON, V	A 222042396		1774	

DATE MAILED: 11/19/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))......\$665.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))......\$240.00 By other than a small entity......\$480.00

(c) Issue fee for issuing a plant patent:

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Date et al.

| Art Unit Application No. 09/434,498

Notice of Allowability	Bruce Examiner	Hess	1774	
The MAILING DATE of this communication appea	rs on the cover	r sheet with the co	orrespondence ad	dress
All claims being allowable, PROSECUTION ON THE MERITS IS (or previously mailed), a Notice of Allowance (PTOL-85) or oth THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT AND A STATE OF THE NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT OF THE NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT OF THE NOTICE O	(OR REMAINS) er appropriate control RIGHTS. This ee 37 CFR 1.31	CLOSED in this app ommunication will s application is sub 3 and MPEP 1308.	be mailed in due c ject to withdrawal	course.
1. This communication is responsive to Paper 1	No. 24	Amendm	en7)	<u> </u>
2. The allowed claim(s) is/are				
3. The drawings filed on are acceptance.	cepted by the i	Examiner.		
4. X Acknowledgement is made of a claim for foreign pr	iority under 35	U.S.C. § 119(a)-	(d).	
a) All b) Some* c) None of the:				
1. A Certified copies of the priority documents have	re been receive	ed.		
2. Certified copies of the priority documents have	re been receive	ed in Application N	10.	•
a Classic state position copies of the priority of	locuments have	e been received in	this national sta	ge
application from the international boreau t				
*Certified copies not received:		05.11.0.0. 5.11.01	a) Ita a provision	al application).
5. Acknowledgement is made of a claim for domestic	priority under	bes been received	e) (to a provision	C. Oppro-
(a) The translation of the foreign language provision	nai application	05 110 C 55 120	rendler 121	
6. Acknowledgement is made of a claim for domestic	priority under	35 0.5.6. 93 120) alloyor 121.	.t
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDO EXTENDABLE.	HIVETT OF COME			
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	mitted. Note the ives reason(s) w	e attached EXAMIN why the oath or dec	ER'S AMENDMEN laration is deficien	it.
8. CORRECTED DRAWINGS must be submitted.				
(a) S including changes required by the Notice of Dra	aftsperson's Pa	stent Drawing Rev	view (PTO-948) a	ittacheo
to No harsto or 21 to Paner No.				
(b) including changes required by the proposed dra	awing correction			
(c) including changes required by the attached Example Paper No.				
Identifying indicia such as the application number (see 37 CFR each sheet. The drawings should be filed as a separate paper	1.84(c)) should with a transmitt	be written on the dra al letter addressed to	wings in the top m the Official Draftsp	argin (not the back) (person.
9. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIRE	acit of RIOLOG	ICAL MATERIAL	must be submitte	ed. Note the
Attachment(s)			Ann	lication (PTO-152)
1 Notice of References Cited (PTO-892)			ntormal Patent App Summary (PTO-413	
3 Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (F10-470 S Amendment/Comr	•
5 Information Disclosure Statement(s) (PTO-1449), Paper No.	o(s)			sons for Allowance
7 Examiner's Comment Regarding Requirement for Deposit of Material	n Biological	O TYGUING S	· 🔿	a here
9. Other				
•			B. Wan	alton hess